

# PRODUCTION OF OXAZOLINE POLYMER/SILICA COMPOSITE MOLDED ARTICLE

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- european:

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## Abstract of JP3056535

**PURPOSE:**To obtain the subject uniform and transparent composite molded article without troubles at a low cost by gelatinizing an oxazoline polymer containing hydrolyzable and polymerizable silyl group and a hydrolyzable and polymerizable silane and forming the components before or after the gelatinization. **CONSTITUTION:**An oxazoline polymer containing hydrolyzable and polymerizable group (preferably trialkoxysilyl group) and a hydrolyzable and polymerizable silane (preferably tetraalkoxy-silane) are gelatinized by co-hydrolytic polymerization reaction. Before or after the gelatinization, the components are formed in a proper form such as fiber, film or sphere to obtain the objective composite molded article having easily controllable pore diameter and its distribution. The above forming process is preferably coating.

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